

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application;

--1. (Currently Amended) A digital recording and/or reproducing apparatus comprising:

a reproducing unit for reading out digital data from a first recording medium having a known read out rate at a transmission rate higher than a predetermined standard said known read out rate of said first recording medium;

a temporary storage unit directly connected to said reproducing unit for temporarily storing digital data read out by said reproducing unit, wherein said temporary storage unit includes an input/output calculation unit for processing the digital data from the reproducing unit with modulation and error correction and encoding before feeding to a hard disk drive of the temporary storage unit for temporarily storing the digital data;

a recording unit for recording digital data read out from said storage unit in a second recording medium; and

[[a]] controlling unit means for controlling respective operations of said reproducing unit, said temporary storage unit and said recording unit, said controlling unit means causing the digital data from said reproducing unit to be written in said temporary storage unit at a transmission rate higher than a predetermined known recording rate of said second recording medium, said controlling unit means causing the digital data to be read out from said temporary storage

unit at a transmission rate equal to the predetermined known recording rate for said second recording medium, for routing the read out data to said recording unit and causing the routed read out data to be recorded in said second recording medium at the predetermined known recording rate for said second recording medium.

--2. (Currently Amended) The recording and/or reproducing apparatus according to claim 1 wherein when the reading out operation of said reproducing unit comes to a close, said controlling unit means causes the read out data to be recorded on said second recording medium by said recording unit.

--3. (Currently Amended) The recording and/or reproducing apparatus according to claim 1 wherein when the reading out operation from said first recording medium by said reproducing unit comes to a close, said controlling unit means causes the read out data to be recorded on said second recording medium.

--4. (Currently Amended) The recording and/or reproducing apparatus according to claim 3 wherein said controlling unit means halts the recording by said second recording unit when said second recording medium is not loaded on said recording unit ~~and a time is at~~ a starting time.

--5. (Cancelled)

--6. (Currently Amended) The recording and/or reproducing apparatus according to claim [[5]] 1 wherein said data processing input/output calculation unit is controlled by said controlling unit means so that data read out from said data hard disc drive of said temporary storage unit is decoded and read out at said transmission rate equal to the predetermined known recording rate for said second recording medium.

--7. (Currently Amended) A digital recording and/or reproducing apparatus comprising:

a reproducing unit including a decoding processing unit for decoding data read out from a first recording medium at a transmission rate faster than a predetermined known readout rate for said first recording medium and for outputting a playback signal and a first controlling unit for controlling said decoding processing unit;

a temporary storage unit for storing data read out from said first recording medium, wherein said storage unit includes an input/output calculation unit for processing the digital data from the reproducing unit with modulation and error correction and encoding before feeding to a hard disk drive of the temporary storage unit for temporarily storing the digital data;

a recording unit including an encoding unit for encoding digital data read out from said temporary storage unit and a second controlling unit for controlling said encoding unit, said recording unit storing digital output data from said

encoding unit in a second recording medium; and
a third controlling unit for supplying [[a]] respective
control signal signals to said first controlling unit and to
said second controlling unit to control operation of said
reproducing unit and operation of said recording unit; said
third controlling unit supplying a control signal to said
input/output calculation unit of said temporary storage unit
to read out digital data from said ~~storage unit~~ hard disc
drive at a transmission rate equal to a predetermined known
recording rate of said second recording medium, and said third
controlling unit sending a control signal to said second
controlling unit to cause digital data supplied thereto to be
recorded on said second recording medium at the predetermined
known recording rate for said second recording medium.

--8. (Currently Amended) The recording and/or reproducing
apparatus according to claim 7 wherein said third controlling
unit causes digital data to be read out from said temporary
storage unit after an end of the reproducing operation of said
first recording medium by said reproducing unit to route the
read out data to said recording unit, the read out data being
recorded by said recording unit on said second recording
medium.

--9. (Currently Amended) The recording and/or reproducing
apparatus according to claim 7 wherein, when the data
recording start time point is previously set in said second
recording medium, said third controlling unit causes digital

data to be read out from said temporary storage unit when the time is at the data recording start time point to route the read out data to said recording unit to cause the read out data to be recorded on said second recording medium.

--10. (Previously Presented) The recording and/or reproducing apparatus according to claim 7 wherein, when said second recording medium is not loaded on said recording unit and the time is the data recording start time point, said third controlling unit halts the recording operation of said second recording medium.

--11. (Cancelled)

--12. (Currently Amended) The recording and/or reproducing apparatus according to claim [[11]] 7 wherein said data processing input/output calculation unit is controlled by said third controlling unit so that digital data read out from said temporary data storage unit is processed with said further decoding so that the data is read out at the transmission rate equal to the predetermined known recording rate of said second recording medium.

--13. (Currently Amended) A digital recording and/or reproducing apparatus comprising:

a reproducing unit for reading out digital data from a

first recording medium at a transmission rate higher than a predetermined known readout rate of said first recording medium;

a temporary data storage unit for storing data read out by said reproducing unit, wherein said storage unit includes an input/output calculation unit for processing the digital data from the reproducing unit with modulation and error correction and encoding before feeding to a hard disk drive of the temporary data storage unit for temporarily storing the digital data;

a recording unit for storing recording digital data read out from said temporary storage unit in a second recording medium; and

[[a]] controlling unit means for controlling respective operations of said reproducing unit, said temporary data storage unit and said recording unit, said controlling unit means causing data to be read out from said temporary data storage unit, at a transmission rate equal to a predetermined known recording rate for said second recording medium, and supplied to said recording unit for recording thereon, at the predetermined known recording rate for said second recording medium, after all of the data read out from the first recording medium is stored in said temporary data storage unit.

--14. (Currently Amended) The recording and/or reproducing apparatus according to claim 13 wherein said controlling unit means causes the digital data to be read out

from said temporary storage unit and routed to said recording unit and when the reading out operation of said first recording medium by said reproducing unit comes to a close, said controlling unit means causes the read out data to be recorded on said second recording medium by said recording unit.

--15. (Currently) The recording and/or reproducing apparatus according to claim 13 wherein said controlling unit means causes digital data to be read out from said temporary storage unit and when the reproducing operation for said first recording medium by said reproducing unit comes to a close, said controlling unit means causes the read out data to be recorded on said second recording medium.

--16. (Currently Amended) The recording and/or reproducing apparatus according to claim 15 wherein, when a time is a starting time and the second recording medium is not loaded on said recording unit, said controlling unit means halts the recording operation of said second recording unit.

--17. (Cancelled)

--18. (Currently Amended) The recording and/or reproducing apparatus according to claim [[17]] 13, wherein said data processing input/output calculation unit is controlled by said controlling unit means so that data read

out from said data storage unit is decoded and read out at a the transmission rate equal to the predetermined recording rate for said second recording medium.

--19. (Currently Amended) A digital recording and/or reproducing apparatus comprising:

a reproducing unit for reading out digital data from a first recording medium at a transmission rate faster than a predetermined known readout rate of said first recording medium;

a temporary data storage unit for temporarily storing digital data read out from said reproducing unit, wherein said data storage unit includes an input/output calculation unit for processing the digital data from the reproducing unit with modulation and error correction and encoding before feeding to a hard disk drive of the temporary data storage for temporarily storing the digital data;

a recording unit for recording said digital data read out from the temporary data storage unit in a second recording medium; and

[[a]] controlling unit means for controlling said reproducing unit, said temporary data storage unit and said recording unit, said controlling unit means operating so that, when a data recording starting time point is previously set on said second recording medium, data is read out from said temporary data storage unit, at a transmission rate equal to a predetermined known recording rate for said recording medium, and routed to said recording unit when a time is the recording

starting time point, with the read out data being recorded on said second recording medium at the predetermined known recording rate for said second recording medium.

C1

--20. (Currently Amended) The recording and/or reproducing apparatus according to claim 19 wherein, when said second recording medium is not loaded on said recording unit and the time is the recording starting time point, said controlling unit means halts the recording operation of said second recording unit.
